

Kepler - Bug #3226

Eval: subplots from RExpression overly condensed

04/16/2008 03:42 PM - Kevin Drury

Status:	New	Start date:	04/16/2008
Priority:	Normal	Due date:	
Assignee:	Chad Berkley	% Done:	0%
Category:	general	Estimated time:	0.00 hour
Target version:	3.X.Y	Spent time:	0.00 hour
Bugzilla-Id:	3226		

Description

Using nightly build 14 Apr 08 under WinXP. The code below generates a publication-quality graphic when run from the R command line. When run in an RExpression actor, however the results are pretty unattractive.

Case 1: With an imageJ actor connected, the resulting RExpressionNUM.png is extremely compressed. i.e., there is lots of white space and the subplots are cramped.

Case 2: With no imageJ actor, and the "Automatically display graphics" button checked, the resulting pdf is less cramped than the png, but still not as well-proportioned as that coming directly from R.

Note: resizing the graphic does not help - proportions remain the same

1. test code for RExpression actor subplot generation
2. get data and variables in order...
`library(MASS);`
`names(wtloss); attach(wtloss);`
`w<-Weight; d<-Days;`
3. set up stacked subplotting environment, plot top fig
`par(mfrow=c(2,1)); plot(w~d);`
`res<-lm(w~d); abline(res);`
4. plot bottom fig
`r<-residuals(res); plot(d,r);`
5. return to default graphics, clean up
`par(mfrow=c(1,1));`
`detach(wtloss);`

History

#1 - 04/17/2008 09:25 AM - Dan Higgins

Differences in graphs created by R depend on the graphics device (i.e. png file, pdf file, or R plotting window and the device settings. RExpression automatically creates on png or pdf files. The size is set as parameters, but maybe some of the other settings should be varied.

Ideally we would create a Java R graphics device that would be displayed by the core Kepler java code. This would require some better integration of R with Kepler, but would also allow (theoretically) interactive manipulation of plots.

Dan Higgins

#2 - 03/27/2013 02:22 PM - Redmine Admin

Original Bugzilla ID was 3226